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10/639,070	08/12/2003	Steven E. Riedl	61575.1030	6931
7590 Alex L. Yip Kaye Scholer LLP 425 Park Avenue New York, NY 10022	08/29/2007		EXAMINER BANTAMOI, ANTHONY	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/639,070	RIEDL, STEVEN E.	
	Examiner	Art Unit	
	Anthony Bantamoi	2609	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 08/09/2007.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-54 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-54 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ✓ 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) Notice of Informal Patent Application
- 6) Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-54 are rejected under 35 U.S.C. 102(e) as being anticipated by Eldering (U.S. Pat.

Patent 6,615,039), hereinafter referenced as Eldering.

Regarding claim 1, Eldering discloses advertisement subgroups for digital streams. In addition Eldering discloses splice points which reads on "an indicator indicative of an event in the delivery of the programming content" (column 9, lines 1-3), furthermore, Eldering discloses a method of assigning a subgroup address to subgroups which reads on "determining the audience currently viewing the programming content" (column 14, lines 65-67), furthermore, Eldering teaches a method of forming subgroups according to subscriber characteristics which reads on "obtaining data descriptive of at least one group of members of the audience" (column 14, lines 10-12), also, Eldering teaches a method of inserting advertisements based on relationship which reads on "generating at least one programming segment based on data" (column 14, lines 59-67), finally, Eldering discloses a method of transmitting first presentation to the first subgroup and second presentation to the second subgroup which reads on

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"providing to the at least one group, the at least one programming segment in lieu of the programming content during the event" (column 13, lines 62-64).

Regarding claim 2, Eldering teaches everything as applied above (see claim 1), in addition Eldering teaches a cue tone detector which reads on " indicator containing a message which includes the start time of event" (column 8, lines 44-46).

Regarding claim 3, Eldering teaches everything as applied above (see claim 1), in addition Eldering discloses an out of bound channel which is equivalent to "available transmission channel in the network" (column 12, lines 41-44), also Eldering teaches a method of transmitting presentation streams as a television channel which reads on "transmitting at least one programming segment over at least one available transmission channel" (column 14, lines 40-42).

Regarding claim 4, Eldering teaches everything as applied above (see claim 1), in addition Eldering teaches splice points which reads on "advertisement breaks" (column 9, lines 1-3).

Regarding claim 5, Eldering teaches everything as applied above (see claim 1), in addition Eldering teaches cue tone detector which reads on " indicator containing a DPI cue" (column 8, lines 44-46).

Regarding claim 6, Eldering teaches everything as applied above (see claim 1), in addition Eldering teaches a method of inserting advertisements in one or more empty segments which reads on "at least one programming segment comprises one or more advertisements" (column 14, lines 26-28).

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Regarding claim 7, Eldering teaches everything as applied above (see claim 1), in Eldering teaches a cable network wherein the nodes are being fed fiber-optic cable with a two-way communication capacity, which reads on "two-way multi-channel delivery network" (column 7, lines 15-17).

Regarding claim 8, Eldering teaches everything as applied above (see claim 1); in addition Eldering teaches an implementation of advertisement particularly applicable to a cable-based network "the network is a cable network" (column 7, lines 58-60) and is exhibited in figure 7.

Regarding claim 9, Eldering discloses advertisement subgroups for digital streams. In addition Eldering discloses splice points which reads on "detecting, in the program stream, a message indicating a scheduled programming segment" (column 9, lines 1-3), furthermore, Eldering discloses a method of assigning a subgroup address to subgroups which reads on "identifying one or more user terminals which is currently receiving the program stream" (column 14, lines 60-64), furthermore, Eldering teaches a method of forming subgroups according to subscriber characteristics which reads on "identifying one or more groups of users within the set" (column 14, lines 10-12), also, Eldering teaches a method of inserting advertisements based on relationship which reads on "generating one or more data streams containing one or more alternate programming segment for substituting the scheduled programming segment" (column 14, lines 59-67), finally, Eldering discloses a method of transmitting first presentation to the first subgroup and second presentation to the second subgroup which reads on

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"providing to the at least one data stream to a selected one of the identified groups over the communication network" (column 13, lines 62-64).

Regarding claim 10, Eldering teaches everything as applied above (see claim 9), in addition Eldering teaches a method of inserting advertisements in one or more empty segments which reads on "the scheduled programming segment comprises one or more advertisements" (column 14, lines 26-28).

Regarding claim 11, Eldering teaches everything as applied above (see claim 9), in addition Eldering teaches a cue tone detector which reads on "the message includes the start time of the scheduled programming segment" (column 8, lines 42-44).

Regarding claim 12, Eldering teaches everything as applied above (see claim 9), in addition Eldering teaches cue tone detector which reads on "message includes a DPI cue" (column 8, lines 42-44).

Regarding claim 14, Eldering teaches everything as applied above (see claim 9), in addition Eldering teaches a switching equipment that switches between two different sources which reads on "directing at least one user terminal in the selected group to tune from a first transmission channel at the start of the scheduled programming segment; transmitting the at least one data stream over the second transmission channel; and directing the at least one user terminal in the selected group to re-tune to the first transmission channel at the end of the scheduled programming segment" (column 8, lines 44-52).

Regarding claim 15, Eldering teaches everything as applied above (see claim 9), in addition Eldering teaches subgroups based on demographic segmentation which

reads on "where in the one or more groups are identified by analyzing demographic data associated with the user terminal set" (column 4, lines 35-40).

Regarding claim 16, Eldering teaches everything as applied above (see claim 9), in addition Eldering disclose how the increase in bandwidth/channels leads to smaller nodes which consequently leads to much smaller subgroups which reads on "more groups are identified as a function of available transmission channels" (column 7, lines 12-19).

Regarding claim 17, Eldering teaches everything as applied above (see claim 9), in addition Eldering disclose how the increase in channels leads to forming more groups and additional programming which reads on "more groups are identified also as a function of the additional scheduled programming expected to occur concurrently with the scheduled programming segment" (column 7, lines 12-19).

Regarding claim 18, Eldering teaches everything as applied above (see claim 9), in addition Eldering disclose how the increase in channels leads to identifying more groups and additional programming which reads on "more groups are identified also as a function of the additional programming streams expected to be delivered concurrently with the programming stream during the scheduled programming segment" (column 7, lines 12-19).

Regarding claim 19, Eldering teaches everything as applied above (see claim 9), in addition Eldering disclose how the increase in channels leads to forming more groups and additional programming which reads on "additional program streams utilize a subset of the available transmission channels" (column 7, lines 12-19).

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Regarding claim 20, Eldering teaches everything as applied above (see claim 9), in addition Eldering discloses a technique where the advertisements are transmitted on a channel that is separate from the programming channel which inherently discloses as evidenced by the fact that one with ordinary skill in the art would have recognized that "determining the availability of the subset of the transmission channels for carrying one or more data streams" would have been provided for the purpose of adding additional programming (column 12, lines 29-33).

Regarding claim 21, Eldering teaches everything as applied above (see claim 9), in addition Eldering teaches a cable network wherein the nodes are being fed fiber-optic cable with a two-way communication capacity, which reads on "two-way multi-channel delivery network" (column 7, lines 15-17).

Regarding claim 22, Eldering teaches everything as applied above (see claim 9), in addition Eldering discloses a cable TV network, which reads on "the network includes a cable TV network" (column 12, lines 7-9).

Regarding claim 23, Eldering discloses splice points which reads on "detecting an indicator indicative of an event in the delivery of the programming content" (column 9, lines 1-3), furthermore, Eldering discloses a method of assigning a subgroup address to subgroups which reads on "determining an audience currently receiving the programming content" (column 14, lines 60-64), furthermore, Eldering teaches a method of forming subgroups according to subscriber characteristics which reads on "identifying one or more groups of members of the audience" (column 14, lines 10-12) , also,

Eldering teaches a method of inserting advertisements based on relationship which reads on "allocating one or more available channels for conveying at least one advertisement of the data streams, the number of available transmission channels allocated being a function of the number of groups" (column 14, lines 59-67), finally, Eldering discloses a method of transmitting first presentation to the first subgroup and second presentation to the second subgroup which reads on "providing over the allocated one or more transmission channels, the at least one advertisements targeted at the selected group of members of the audience" (column 13, lines 62-64).

Regarding claim 24, Eldering teaches everything as applied above (see claim 23), in addition Eldering teaches a cue tone detector which reads on " indicator contains a message which includes the start time of an advertising segment" (column 8, lines 42-44).

Regarding claim 25, Eldering teaches everything as applied above (see claim 23), in addition Eldering teaches cue tone detector which reads on " indicator includes a DPI cue" (column 8, lines 42-44).

Regarding claim 26, Eldering teaches everything as applied above (see claim 23). In addition Eldering teaches a cable network wherein the nodes are being fed by fiber-optic cable with a two-way communication capacity, which reads on " the network includes a two-way multi-channel delivery network" (column 7, lines 15-17).

Regarding claim 27, Eldering teaches everything as applied above (see claim 23), in addition Eldering teaches an implementation of advertisement particularly

applicable to a cable-based network which reads on "the network includes a cable TV network" (column 7, lines 58-60).

Regarding claim 28, Eldering teaches everything claimed. In addition claim 28, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 1. Claim 1 describes a method for delivering programming content over a communication network and claim 28 describes a system for delivering programming content over a communication network. Thus claim 28 is rejected.

Regarding claim 29, Eldering teaches everything claimed. In addition claim 29, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 2. Claim 2 describes a method wherein an indicator contains a message, which includes the start time on the event, and claim 29 describes a system wherein an indicator contains a message, which includes the start time. Thus claim 29 is rejected.

Regarding claim 30, Eldering teaches everything claimed. In addition claim 30, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 3. Claim 3 describes a method of identifying available channels in the network and transmitting at least one programming segment over at least one of the available channels, and claim 30 describes a system for identifying available channels in the network and transmitting at least one programming segment over at least one of the available channels. Thus claim 30 is rejected.

Regarding claim 31, Eldering teaches everything claimed. In addition claim 31, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 4. Claim 4 describes a method wherein the event includes an advertisement

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break, and claim 31 describes a system wherein the event includes an advertisement break. Thus claim 31 is rejected.

Regarding claim 32, Eldering teaches everything claimed. In addition claim 32, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 5. Claim 5 describes a method wherein the indicator includes a digital program insertion (DPI) cue, and claim 32 describes a system wherein the indicator includes a digital program insertion (DPI) cue. Thus claim 32 is rejected.

Regarding claim 33, Eldering teaches everything claimed. In addition claim 33, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 6. Claim 6 describes a method wherein the at least one programming segment comprises of one or more advertisements, and claim 33 describes a system wherein the at least one programming segment comprises of one or more advertisements. Thus claim 33 is rejected.

Regarding claim 34, Eldering teaches everything claimed. In addition claim 34, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 7. Claim 7 describes a method wherein the network includes a two-way multi-channel delivery network, and claim 34 describes a system wherein the network includes a two-way multi-channel delivery network. Thus claim 34 is rejected.

Regarding claim 35, Eldering teaches everything claimed. In addition claim 35, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 8. Claim 8 describes a method wherein the network is a cable TV network, and

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claim 35 describes a system wherein the network is a cable TV network. Thus claim 35 is rejected.

Regarding claim 36, Eldering teaches everything claimed. In addition claim 36, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 9. Claim 9 describes a method for delivering a program stream containing programming material over a communication network to a plurality of user terminals comprising; detecting, in the program stream, a message indicating a scheduled programming segment; in response to a detection of the message, identifying a set of one or more user terminals which is currently receiving the stream; identifying one or more user groups or user terminals within the set; generating one or more data streams containing one or more alternate programming segments for substituting the scheduled programming segment; and providing at least one of the data streams to a selected one of the identified groups over the communication network, and claim 36 describes a system for delivering a program stream containing programming material over a communication network to a plurality of user terminals comprising; a detector for detecting, in the program stream, a message indicating a scheduled programming segment; a processing unit responsive to a detection of the message, for identifying a set of one or more user terminals which is currently receiving the program stream, one or more user groups or user terminals within the set being identified; a server for generating one or more data streams containing one or more alternate programming segments for substituting the scheduled programming segment; and a mechanism for

providing at least one of the data streams to a selected one of the identified groups over the communication network . Thus claim 36 is rejected.

Regarding claim 37, Eldering teaches everything claimed. In addition claim 37, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 10. Claim 10 describes a method wherein the scheduled programming segment comprises one or more advertisements; and claim 37 describes a system wherein the scheduled programming segment comprises one or more advertisements. Thus claim 37 is rejected.

Regarding claim 38, Eldering teaches everything claimed. In addition claim 38, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 11. Claim 11 describes a method wherein the message includes a start time of the scheduled programming segment, and claim 38 describes a system wherein the message includes a start time of the scheduled programming segment. Thus claim 38 is rejected.

Regarding claim 39, Eldering teaches everything claimed. In addition claim 39, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 12. Claim 12 describes a method wherein the message includes a DPI cue, and claim 39 describes a system wherein the message includes a DPI cue. Thus claim 39 is rejected.

Regarding claim 40, Eldering teaches everything claimed. In addition claim 40, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 13. Claim 13 describes a method wherein at least one of the alternate

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programming segments comprise advertisements, and claim 40 describes a system wherein at least one of the alternate programming segments comprise advertisements. Thus claim 40 is rejected.

Regarding claim 41, Eldering teaches everything claimed. In addition claim 41, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 14. Claim 14 describes a method comprising; directing at least one user terminal in the selected group to tune from a first transmission channel at the start of the scheduled programming segment; transmitting the at least one data stream over the second transmission channel; and directing the at least one user terminal in the selected group to re-tune to the first transmission channel at the end of the scheduled programming segment, and claim 41 describes a system wherein at least one user terminal in the selected group is directed to tune from a first transmission channel to a second transmission channel at the start of the scheduled programming segment and to re-tune to the first transmission channel at the end of the scheduled programming segment, the at least one data stream being transmitted over the second transmission channel. Thus claim 41 is rejected.

Regarding claim 42, Eldering teaches everything claimed. In addition claim 42, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 15. Claim 15 describes a method wherein one or more groups are identified by analyzing demographic data associated with user terminal in the set, and claim 42 describes a system wherein the one or more groups are identified by analyzing demographic data associated with user terminal in the set. Thus claim 42 is rejected.

Regarding claim 43, Eldering teaches everything claimed. In addition claim 43, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 16. Claim 16 describes a method wherein the one or more groups are identified as a function of the number of available channels in the network, and claim 43 describes a system wherein the one or more groups are identified as a function of the number of available channels in the network. Thus claim 43 is rejected.

Regarding claim 44, Eldering teaches everything claimed. In addition claim 44, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 17. Claim 17 describes a method wherein one or more groups are identified also as a function of the number of additional scheduled programming segment expected to occur concurrently with the scheduled programming segment, and claim 44 describes a system wherein the one or more groups are identified also as a function of the number of additional scheduled programming segment expected to occur concurrently with the scheduled programming segment. Thus claim 44 is rejected.

Regarding claim 45, Eldering teaches everything claimed. In addition claim 45, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 18. Claim 18 describes a method wherein one or more groups are identified also as a function of the number of additional scheduled programming segment expected to be delivered concurrently with the program stream during the scheduled programming segment, and claim 45 describes a system wherein one or more groups are identified also as a function of the number of additional scheduled programming segment

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expected to be delivered concurrently with the program stream during the scheduled programming segment. Thus claim 45 is rejected.

Regarding claim 46, Eldering teaches everything claimed. In addition claim 46, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 19. Claim 19 describes a method wherein the additional program streams utilize a subset of available transmission channels; and claim 46 describes a system wherein the additional program streams utilize a subset of available transmission channels. Thus claim 46 is rejected.

Regarding claim 47, Eldering teaches everything claimed. In addition claim 47, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 20. Claim 20 describes a method further comprising determining a subset of available transmission channels for carrying the one or more data streams, and claim 47 describes a system wherein a subset of available transmission channels for carrying the one or more data streams is determined. Thus claim 47 is rejected.

Regarding claim 48, Eldering teaches everything claimed. In addition claim 48, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 21. Claim 21 describes a method wherein the network includes a two-way multi-channel delivery network, and claim 48 describes a system wherein the network includes a two-way multi- channel delivery network. Thus claim 48 is rejected.

Regarding claim 49, Eldering teaches everything claimed. In addition claim 49, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 22. Claim 22 describes a method wherein the network includes a cable TV

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network, and claim 49 describes a system wherein the network includes a cable TV network. Thus claim 49 is rejected.

Regarding claim 50, Eldering teaches everything claimed. In addition claim 50, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 23. Claim 23 describes a method for providing targeted advertisements over a communication network including a plurality of transmission channel, the communication network delivering at least a program stream containing programming content through the selected transmission channel the method comprising; detecting an indicator indicative of an advertising segment within the programming content; determining an audience already receiving the programming content; identifying one or more groups of members of the audience; allocating one or more available transmission channels for conveying at least one of the advertisement data stream, the number of available transmission channels allocated being a function of the number of groups; and providing, over the allocated one or more transmission channels, the at least one advertisement data stream which contains one or more advertisements targeted at a selected group of members of the audience, and claim 50 describes a system for providing targeted advertisements over a communication network including a plurality of transmission channel, the communication network delivering at least a program stream containing programming content through the selected transmission channel the method comprising; a detector for detecting an indicator indicative of an advertising segment within the programming content; determining an audience already receiving the programming content; a processing unit responsive to a detection of the indicator, for

determining an audience currently receiving the programming content, one or more groups of the audience being identified; a serve for allocating one or more available transmission channels for conveying at least one of the advertisement data stream, the number of available transmission channels allocated being a function of the number of groups; and a mechanism for providing, over the allocated one or more transmission channels, the at least one advertisement data stream which contains one or more advertisements targeted at a selected group of members of the audience. Thus claim 50 is rejected.

Regarding claim 51, Eldering teaches everything claimed. In addition claim 51, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 24. Claim 24 describes a method wherein the indicator contains a message, which includes a start time of the advertising segment, and claim 51 describes a system wherein the indicator contains a message, which includes a start time of the advertising segment. Thus claim 51 is rejected.

Regarding claim 52, Eldering teaches everything claimed. In addition claim 52, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 25. Claim 25 describes a method wherein the indicator includes a DPI cue, and claim 52 describes a system wherein indicator includes a DPI cue. Thus claim 52 is rejected.

Regarding claim 53, Eldering teaches everything claimed. In addition claim 53, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 26. Claim 26 describes a method wherein the network includes a two-way multi-

channel delivery network, and claim 53 describes a system wherein the network includes a two-way multi-channel delivery network. Thus claim 53 is rejected.

Regarding claim 54, Eldering teaches everything claimed. In addition claim 54, is interpreted and thus rejected for the same reasons set forth above in the rejection of claim 27. Claim 27 describes a method wherein the network includes a cable TV network, and claim 54 describes a system wherein the network includes a cable TV network. Thus claim 54 is rejected.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony Bantamoi whose telephone number is 571 270 3581. The examiner can normally be reached on MON.-FRI. 7:30-5:00 EST..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jefferey Harold can be reached on 571 272 7519. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

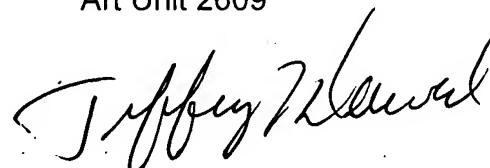


Anthony Bantamoi

Examiner

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AB



JEFFEREMY F. HAROLD
SUPERVISORY PATENT EXAMINER